Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- (withdrawn) A method of treating a linear elastic member to produce localized areas of superelasticity, comprising the steps of:
 - providing a member formed at least in part of a linear elastic material; and selectively heat-treating a portion of the member to a temperature sufficient to induce superelasticity in the material.
- (withdrawn) The method of claim 1, wherein the step of selectively heat-treating a portion of the member comprises the steps of:

providing a heating source adjacent to the member; and applying thermal energy to the member.

- (withdrawn) The method of claim 2, wherein said heat source is a laser heat source.
- (withdrawn) The method of claim 2, wherein said heat source is an induction heat source.
- 5. (withdrawn) The method of claim 2, wherein said heat source is an infrared heat source.
- (withdrawn) The method of claim 1, wherein the step of selectively heat-treating a portion of the member includes heating the member for a period of about 5 to 60 minutes

- 7. (withdrawn) The method of claim 1, wherein the step of selectively heat-treating a portion of the member includes heating the member at or above the final austenitic temperature A_T of the material.
- 8. (withdrawn) The method of claim 1, wherein the step of selectively heat-treating a portion of the member includes heating the member at or above the starting austenitic temperature A₂ of the material.
- 9. (withdrawn) The method of claim 1, wherein said linear elastic material is a linear elastic nickel-titanium alloy.
- 10. (withdrawn) The method of claim 1, wherein said linear elastic material is selected from the group of alloys consisting of silver-cadmium, gold-cadmium, gold-copper-zinc, copper-aluminum-nickel, copper-gold-zinc, copper-zinc, copper-zinc-aluminum, copper-zinc-tin, copper-zinc-silicon, iron-beryllium, iron-nickel-titanium-cobalt, iron-platinum, indium-thallium, iron-manganese, nickel-titanium-cobalt, and copper-tin.
- (withdrawn) The method of claim 1, further comprising the step of imparting a shape-memory to the material.
- (withdrawn) A method of treating a linear elastic member to produce localized areas of superelasticity, comprising the steps of:

providing a member formed at least in part of a linear elastic material;

providing a heat source adjacent to the member; and

selectively applying thermal energy to one or more regions on the member at a temperature sufficient to induce superelasticity in the material.

 (withdrawn) The method of claim 12, wherein said heat source is a laser heat source.

- 14. (withdrawn) The method of claim 12, wherein said heat source is an induction heat source
- (withdrawn) The method of claim 12, wherein said heat source is an infrared heat source.
- 16. (withdrawn) The method of claim 12, wherein the step of selectively heat-treating a portion of the member includes heating the member for a period of about 5 to 60 minutes.
- 17. (withdrawn) The method of claim 12, wherein the step of selectively heat-treating a portion of the member to a sufficient temperature includes heating the member at or above the final austenitic temperature A_f of the material.
- 18. (withdrawn) The method of claim 12, wherein the step of selectively heat-treating a portion of the member includes heating the member at or above the starting austenitic temperature A_s of the material.
- (withdrawn) The method of claim 12, wherein said linear elastic material is a linear elastic nickel-titanium alloy.
- 20. (withdrawn) The method of claim 12, wherein said linear elastic material is selected from the group of alloys consisting of silver-cadmium, gold-cadmium, gold-copper-zinc, copper-aluminum-nickel, copper-gold-zinc, copper-zinc, copper-zinc-silicon, iron-beryllium, iron-nickel-titanium-cobalt, iron-platinum, indium-thallium, iron-manganese, nickel-titanium-cobalt, and copper-tin.
- (withdrawn) The method of claim 12, further comprising the step of imparting a shape-memory to the material.

22. (withdrawn) A method of treating a linear elastic member to produce localized areas of superelasticity, comprising the steps of:

providing a member formed at least in part of a linear elastic material;

cold-forming the member at a temperature less than the starting austenitic temperature A_s of the material to impart a shape to the member;

providing a heat source adjacent to the shaped member; and

selectively applying thermal energy to one or more regions on the shaped member at a temperature sufficient to induce superelasticity in the material.

23. (original) A medical device, comprising:

a linear elastic member having at least one localized area of flexibility formed by selectively heating at least a portion of the member to a temperature sufficient to induce superelasticity in the member.

- 24. (original) The medical device of claim 23, wherein the linear elastic member defines a wire loop.
- 25. (original) The medical device of claim 23, wherein the linear elastic member defines a filter leg.
- 26. (original) The medical device of claim 23, wherein the linear elastic member defines a stent.
- 27. (original) The medical device of claim 23, wherein the linear elastic member defines a core wire.